Release notes for ENDF/B Development dec-044_Ru_120 evaluation

October 14, 2016

- `fizcon` Errors:

    1. All probability distributions should be normalized to 1, this one isn't.
    MAT=1231, MF= 8, MT=457 (1): Bad norm (b)

    ```
    ERROR(S) FOUND IN MAT=1231, MF= 8, MT=457
        NORMALIZATION CHECK INTEGRAL= 1.00308E+00 BEFORE
    ```

    2. Energies released in decay not adding up!
    MAT=1231, MF= 8, MT=457 (2): Bad energy sum

    ```
    ERROR(S) FOUND IN MAT=1231, MF= 8, MT=457
        TOTAL ENERGY RELEASE SUMUP FAILURE
            WHOLE= 8.62286E+06  SUM= 4.85900E+06
    ```

    3. Energies released in decay not adding up!
    MAT=1231, MF= 8, MT=457 (3): Bad energy sum

    ```
    ERROR(S) FOUND IN MAT=1231, MF= 8, MT=457
        GAMMA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.64333E+06  SUM= 1.66279E+06
    ```

    4. Energies released in decay not adding up!
    MAT=1231, MF= 8, MT=457 (4): Bad energy sum

    ```
    ERROR(S) FOUND IN MAT=1231, MF= 8, MT=457
        BETA MULTIPLICITY SUMUP FAILURE
            WHOLE= 1.00000E+00  SUM= 1.00011E+00
    ```

    5. Energies released in decay not adding up!
    MAT=1231, MF= 8, MT=457 (5): Bad energy sum

    ```
    ERROR(S) FOUND IN MAT=1231, MF= 8, MT=457
        BETA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 3.17219E+06  SUM= 3.17718E+06
    ```

    6. Energies released in decay not adding up!
    MAT=1231, MF= 8, MT=457 (6): Bad energy sum

    ```
    ERROR(S) FOUND IN MAT=1231, MF= 8, MT=457
        NEUTRON MULTIPLICITY SUMUP FAILURE
            WHOLE= 4.46100E-02  SUM= 4.47474E-02
    ```

    7. Energies released in decay not adding up!
    MAT=1231, MF= 8, MT=457 (7): Bad energy sum

    ```
    ERROR(S) FOUND IN MAT=1231, MF= 8, MT=457
        NEUTRON AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.86495E+04  SUM= 1.90329E+04
    ```